1	MTGGELL ANEOLIG	31	Reciprocating clutch				
1 2 D	MISCELLANEOUS	29 A	Tie rod tensioner				
2 R 3 R	HOISTING TRUCK	32	AXLE-LUBRICATING JACK				
3 R	.Tilting load support	33	CAR JOURNAL BOX LIFTING				
3 Б 3 С	Service station typePlatform type	34 .Suspended lifter					
4 R	Platform type .Cable hoist	35 CAR-PUSHER TYPE					
4 R	Service station type	26 Pingle Land					
4 C	Platform type	37	Rail clamping				
5 R	.Inclined plane or wedge	38	Pivoted wheel engaging member				
5 B	Service station type	39	DOOR BRACE				
5 C	Platform type	40	PRINTER'S QUOINS				
6 R	.Rack and pinion or segment	41	.Screw				
6 B	Service station type	42	.Wedge				
6 C	Platform type	43	RAIL OR TIE SHAFTER				
7 R	.Screw	44	.Single throw lever				
7 B	Service station type	45	VEHICLE-BODY LIFTERS				
7 C	Platform type	46	.Lever and drum				
, c 8 R	.Single throw lever	47	.Cable hoist				
9 R	Toggle	48	Vehicle attached drum				
9 B	Service station type	49	.Swinging side bars				
9 C	Platform type	50	Single fixed pivot				
10 R	Parallelogram bars	50.1	RESILIENT TIRE-CASING SPREADERS				
10 B	Service station type	50.2	.Spreader and tire casing				
10 C	Platform type		relatively movable or				
8 B	Service station type		rotatably mounted				
8 C	Platform type	50.3	.Fluid pressure operated				
	77F	E 0 4	7.7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
2 B	.Service station type	50.4	.With tire casing support				
2 B 2 C	.Service station type .Platform type		.with tire casing support METHOD OR APPARATUS FOR PLACEMENT				
	.Service station type .Platform type METALLIC SPRING STRETCHER AND/OR		METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE				
2 C	.Platform type		R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential				
2 C	.Platform type METALLIC SPRING STRETCHER AND/OR	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute				
2 C	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF,	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)				
2 C 10.5	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS)	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g.,				
2 C 10.5	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE	134.3 F 134.4 134.5	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)				
2 C 10.5	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by				
2 C 10.5	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw	134.3 F 134.4 134.5 134.6	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)				
2 C 10.5 11 12 13 14	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member	134.3 F 134.4 134.5 134.6 134.7	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing				
2 C 10.5 11 12 13 14 15	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar	134.3 F 134.4 134.5 134.6 134.7 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide				
2 C 10.5 11 12 13 14 15 16	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and barSliding bar	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing				
2 C 10.5 11 12 13 14 15 16 17	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and barSliding bar .Single throw lever	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes				
2 C 10.5 11 12 13 14 15 16 17	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes GC.Submarine cable				
2 C 10.5 11 12 13 14 15 16 17 18	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and barSliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) .Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS				
2 C 10.5 11 12 13 14 15 16 17 18 19 20	.Platform type METALLIC SPRING STRETCHER AND/OR	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21	.Platform type METALLIC SPRING STRETCHER AND/OR	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip	134.3 F 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23	.Platform type METALLIC SPRING STRETCHER AND/OR	134.3 F 134.4 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) .Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes GC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip .Multiple jaw gripCam or wedge actuated	134.3 F 134.5 134.6 134.7 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet)				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw gripMultiple jaw gripCam or wedge actuatedClaw bar	134.3 F 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) .Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes GC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet) Including fluid or spring				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and barSliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw gripMultiple jaw gripCam or wedge actuatedClaw barHammer	134.3 F 134.4 134.5 134.6 134.7 134.3 F 13	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) .Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing FT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet) Including fluid or spring driven cylinder				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R 26 E	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip .Multiple jaw gripCam or wedge actuatedClaw barHammerExtensible fulcrum	134.3 F 134.5 134.6 134.7 134.3 F	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) .Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes GC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet) .Including fluid or spring driven cylinder .Including force transmitting				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 E 27 28 28.5	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE Rack and pinion or segment Screw Step-by-step traveling member Single-throw lever and bar Single throw lever NAIL EXTRACTOR TYPE Hammer and anvil Screw Single throw lever Lever and pivoted jaw grip Multiple jaw grip Cam or wedge actuated Claw bar Hammer Extensible fulcrum Pivoted fulcrum member	134.3 F 134.4 134.5 134.6 134.7 134.3 F 13	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing .T.Conduit pole guide .C.Cable lashing .T.Conduit snakes .C.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring driven cylinderIncluding force transmitting cable and driven, rotatable,				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 E 27 28	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE Rack and pinion or segment Screw Step-by-step traveling member Single-throw lever and bar Single throw lever NAIL EXTRACTOR TYPE Hammer and anvil Screw Single throw lever Lever and pivoted jaw grip Multiple jaw grip Cam or wedge actuated Claw bar Hammer Extensible fulcrum Pivoted fulcrum member STAPLE PULLER	134.3 F 134.4 134.5 134.6 134.7 134.3 F 13	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered) .Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes GC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet) .Including fluid or spring driven cylinder .Including force transmitting				
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 E 27 28 28.5	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw gripMultiple jaw gripCam or wedge actuatedClaw barHammerExtensible fulcrumPivoted fulcrum member STAPLE PULLER THILL-COUPLING JACK	134.3 F 134.4 134.5 134.6 134.7 134.3 F 13	OF CONDUCTIVE WIRE .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing .T.Conduit pole guide .C.Cable lashing .T.Conduit snakes .C.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring driven cylinderIncluding force transmitting cable and driven, rotatable,				

254 - 2 CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

203	Including driven, rotatable, floor covering engaging and	225	With material or cable contacting infeed guide
	pulling drum	226	Rotatable pulley wheel element
204	Including screw drive	227	With ground-engaging support
205	Including rack and pinion, or		means
	pinion segment, drive	228	.Including expansible chamber
206	Including ratchet bar and		fluid motor drive
	driving pawl drive	229	.Including worm and worm wheel
207	Having plural, disparate,		gear drive
	driving pawls	230	.Includng rack and pinion, or
208	Including rotatable, pulley		pinion segment, drive
	wheel element and cable	231	.Including screw drive
209	Including force transmitting,	232	Plural screws
	hand held and operated, lever	233	Having plural, oppositely
210	With means attached thereto		shifting, threaded riders
	for sequentially, gripping,	234	Having plural, oppositely
	shifting, and releasing bar		shifting, threaded riders
	component	235	Having ratchet wheel and pawl
211	With floor covering clamping		for driving screw
	means attached to lever	236	Having intermeshing gears for
212	Having linearly shifting,		driving screw
	guided component attached	237	.Including ratchet bar and
	thereto		driving pawl drive
213	.Including rotatably driven drum	238	Having plural, disparate,
	for engaging either material		driving pawls
	or force transmitting cable	239	Plural ratchet formations
214	Plural drums or drum with	240	Facing opposite directions
	plural distinct sections	241	.Including intermeshing gear
215	Juxtaposed to material or		drive
	cable at single locus	242	.Including rotatable, pulley
216	Having pressure element spaced		wheel element and cable
	therefrom to confine material	243	.Including either force
01.5	or cable thereagainst		transmitting, hand held and
217	Having ratchet wheel and		operated lever or animal
	interengaging pawl for driving		powered sweep
010	drum	244	Implement or apparatus includes
218	Pawl pivots about fixed point		bar component having plural
210	on drive handle		holes and removable
219	Having intermeshing gears for		cooperating pins selectively
220	driving drum	0.45	engagable by lever
220 221	Worm and worm wheel	245	With means attached thereto for
221	With projections or apertures on drum for engagement with		sequentially gripping,
	complementary formations on		shifting, and releasing bar
	material or cable	246	component
222	With means for preventing or	240	Having linearly shifting,
222	retarding rotation in at least		guided component attached thereto
	one direction	247	With ratchet formation and
223	Ratchet wheel or formation and	2 4 /	locking pawl for maintaining
225	pawl		relative positioning
224	With adjustable gripping device	248	With additional, hand held
	for attaching drum to rigid,	210	lever pivotally attached
	in situ structure		thereto for applying pulling
			force in opposite direction
			_oros in opposite direction

249	Having position locking means	425	Gear driven
	between levers	426	.Cable actuated
250	With camming means thereon, and	427	.Rack and pinion
	pressure element spaced	264	APPARATUS FOR HAULING OR HOISTING
	therefrom to confine material,		LOAD, INCLUDING DRIVEN DEVICE
	or force transmitting cable,		WHICH CONTACTS AND PULLS ON
	thereagainst		CABLE
251	With material, article, or	265	.Device includes driven,
	force transmitting cable		flexible, cable contacting
	clamping means attached to and		belt
0.5.0	shifting with lever	266	.Device includes rotatably
252	Including cooperating,		driven, cable contacting drum
	relatively stationary means	267	Having rotational speed
	for intermittently locking		governor for generating
252	material or cable		control impulse to rotation
253	Plural clamping means		retarding means or drive
254	Alternately clamping and	268	Having mechanism, actuated by
055	pulling on material or cable		changes in position of drum
255	Attached by flexible		relative to another component
256	connector		of device, for generating
256	With material, article, or		control impulse to rotation retarding means or drive
	force transmitting cable engaging means movably	269	Having stationary mechanism,
	attached to and shifting with	209	actuated by load or other
	lever		obstruction on and traveling
257	Including cooperating,		with cable, for generating
237	relatively stationary means		control impulse to rotation
	for intermittently locking		retarding means or drive
	material or cable	270	Having cable contacted,
258	Plural, movably attached		supported, or attached
	engaging means		mechanism for generating
259	Alternately engaging and		control impulse to retarding
	pulling on material or cable		means or drive
260	Attached by flexible	271	With cable contacting
	connector		component, on or adjacent to
261	With means pivotally connected		circumference of drum, shifted
	to lever and adapted to engage		by segment of wound cable
	rigid, in situ structure	272	With cable deflecting or path
262	.Including adjustable gripping		defining component shifted by
	device for attaching implement		cable when tension varies
	or apparatus to rigid, in situ	273	Electricity or fluid utilized
	structure		in transmittal of impulse
263	.Including ground engaging means	274	Having mechanism, linked to
	for supporting implement or		drum or rotating element of
	apparatus in plural,		drive, for generating control
	vertically spaced positions		impulse to rotation retarding
84	TRAVERSING JACK		means or motor when torque on
85	.Screw	275	<pre>drum variesElectricity utilized in</pre>
418	VEHICLE ATTACHED JACK	275	-
419	.Semi-trailer landing gear	276	transmittal or impulseHaving mechanism, linked to
420	.Attached to trailer tongue	∠ / U	drum and actuated by number of
421	.Turntable		drum rotations, for generating
422	.Rocking lever		control impulse to rotation
423	.Hydraulic or pneumatic		retarding means or drive
424	.Screw actuated		<u> </u>

254 - 4 CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

277	With fluid or resilient shock absorbing or tension maintaining means attached to, supported by, or supporting	300	<pre>With frictional brake assembly mechanically linked to, and operationally influenced by, clutch</pre>
	guiding structure for cable	301	With additional axially
278	Plural drums or drum with plural distinct sections	301	shiftable clutch mechanism mechanically linked to, and
279	With vehicle for supporting at least one drum		operationally influenced by, first clutch
280	Having rotatable, cable guiding, pulley wheel element	302	Alternately transmitting power
281	<pre>spaced from drumsElement repositionable</pre>	303	Fluid operated actuator shifts component
201	-	204	-
	relative to at least one of the drums	304	<pre>Components having frictional contact surface</pre>
282	Drive for at least one drum	305	Truncated cone shaped
	includes motor of vehicle	306	Also including ratchet wheel
283	Having rotatable, cable		and driving pawl
	guiding, pulley wheel element	307	Plural driving pawls
	spaced from drums	308	Attached to rotatable disk
284	Element repositionable		or shaft
	relative to at least one of the drums	309	Also including clutch
005			mechanism having rotatable,
285	Plural elements		radially shiftable, power
286	Plural elements		transmitting component
287	Juxtaposed to cable at single locus	310	With means for preventing or retarding rotation of one or
288	With means affixing at least		more drums in at least one
	one drum to supporting base		direction
	and allowing movement between	311	Including sprocket wheel and
	drum and base	311	chain in drive
289		312	
209	<pre>Movement engages or disengages drum from drive</pre>	312	Including power transmitting pulley and rope or belt either
290	Plural, distinct, drive motors		in drive or in cable return
291	Noncompressible fluid		means
292	Electric	313	Including contacting friction
293	Each drum having plural,		wheels having noncollinear
275	distinct drive sources or		axes of rotation in drive
		314	Including expansible,
	discrete drive trains	214	
294	Having common drive source or		noncombustible, fluid motor in
	mechanically interlinked drive		drive (e.g., air, steam)
	trains	315	Including noncompressible
295	Including intermeshing gears		fluid motor or pump in drive
	in drive	316	Including electric motor in
296	Worm and worm wheel		drive
297	Epicyclic gear train having	317	Including clutch mechanism in
271		32.	drive having coaxial,
	sun, intermediate (e.g.,		rotatable, relatively
	planet), and ring gears		
298	Shiftable into and out of		shiftable axially, power
	intermeshing engagement	216	transmitting components
299	Also including clutch	318	With frictional brake
	mechanism having coaxial,		assembly mechanically linked
	rotatable, relatively		to, and operationally
	shiftable axially, power		influenced by, clutch
	transmitting components	319	Components having frictional
	cransmittering components		contact surface

320	Including ratchet wheel and interengaging driving pawl in	344	Epicyclic gear arrangement including sun, intermediate
321	<pre>driveIncluding means for preventing or retarding</pre>	345	<pre>(e.g., planet), and ring gearsShiftable into and out of intermeshing engagement</pre>
200	rotation of one or more drums in at least one direction	346	Drive also includes clutch mechanism having coaxial,
322	Frictional brake assembly having rotating, wheel structure and shiftable shoe		rotatable relatively shiftable axially, power transmitting components
202	or band	347	With frictional brake
323 324	With vehicle for supporting drum		assembly mechanically linked to, and operationally influenced by, clutch
324	Having arch-shaped body for straddling load	348	With additional axially
325	Having rotatable, cable	340	shiftable clutch mechanism
323	guiding, pulley wheel element spaced from drum		mechanically linked to, and operationally influenced by,
326	Element repositionable		first clutch
	relative to drum	349	Fluid operated actuator
327	Plural elements		shifts component
328	Drive for drum includes motor of vehicle	350	Components having frictional contact surface
329	With means affixing drum to	351	Truncated cone shaped
	supporting base and allowing relative movement therebetween	352	Drive also includes ratchet wheel and driving pawl
330	Movement engages or disengages	353	Plural driving pawls
331	<pre>drum from driveMovement occurs along line</pre>	354	<pre>Attached to rotatable disk or shaft</pre>
220	collinear with rotational axis of drum during pulling of cable	355	Drive also includes clutch mechanism having rotatable, radially shiftable, power
332	Including pivotal, rotational,	356	transmitting component
222	or swivel connection between drum and base	330	With means for preventing or retarding rotation of drum in at least one direction
333	Having pressure element spaced	357	Ratchet wheel or formation
	from drum to confine cable thereagainst	337	and locking pawl
334	Having rotatable, cable	358	Drive includes sprocket wheel
334	guiding, pulley wheel element spaced from drum	359	and chainEither drive or cable return
335	Element repositionable	339	means includes power
	relative to drum		transmitting pulley and rope
336	Plural elements	360	or belt
337	Cable supported	360	Drive includes expansible,
338	Plural elements		noncombustible, fluid motor
339	Having plural, distinct drive	361	(e.g., air, steam)
	sources or discrete drive trains		Drive includes noncompressible fluid motor or pump
340	Including two or more motors	362	Drive includes electric motor
341	Drive includes rack and either	363	Drive includes contacting
	pinion or pinion segment		friction wheels having
342	Drive includes intermeshing gears	364	noncollinear axes of rotationEither drive or cable return
343	Worm and worm wheel		means includes spring

254 - 6 $\,$ CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

365	Drive includes clutch mechanism	383	With cable guard structure
	having coaxial, rotatable,		extending partly around and
	relatively shiftable axially,		closely adjacent to drum
	power transmitting components	384	.Including hand held and operated
366	With frictional brake assembly		lever with plural cable
	mechanically linked to, and		engaging means movably
			attached thereto for
	operationally influenced by, clutch		
265			alternately contacting and
367	Fluid operated actuator shifts	205	pulling on cable
	component	385	.With rotatable, cable
368	Components having frictional		contacting, pulley wheel
	contact surface		element attached to and
369	Drive includes ratchet wheel		reciprocated by driving
	and interengaging driving pawl		component of device
370	Drive includes clutch mechanism	386	Element reciprocated by
	having rotatable, radially		expansible fluid motor
	shiftable, power transmitting	88	INCLINED PLANE LIFTER
	component	89 R	MULTIPLE LIFTERS (E.G., VEHICLE
371	With means on circumference of		LIFTS)
371	drum, or relatively movable	90	.Track-straddling platform
	drum components, for grasping	91	.Swinging platform
	cable	92	.Screw
372			
3/2	With projections or apertures	89 H	.Fluid pressure
	on drum for engagement with	93 R	FLUID PRESSURE
	complementary structural	93 VA	.Vehicle attached
0.70	formations on cable	93 L	.Service station lifts
373	With pickup or pushing means on	93 A	.Combined with screw
	circumference of drum for	93 HP	.Inflatable portable bags
	cooperating with structure	93 H	.Portable automobile jacks
	attached to, or formed on, end	94	ROCKING SUPPORTS
	of cable	95	RACK AND PINION
374	Having noncircular or varying	96	.Screw pinion
	diameter, cable contacting	97	.Geared
	perimeter	98	SCREW
375	Including means for preventing	99	
		22	
	or retarding rotation of drum	100	.Derrick type
	or retarding rotation of drum in at least one direction	100	.Special engaging feature
376		101	.Special engaging featureRocking head or base
376	in at least one directionRatchet wheel or formation and	101 102	.Special engaging feature
	in at least one directionRatchet wheel or formation and locking pawl	101	.Special engaging featureRocking head or base
377	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brake</pre>	101 102	.Special engaging featureRocking head or base .Telescoping screws
	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly</pre>	101 102 103	.Special engaging featureRocking head or base .Telescoping screws .Geared
377	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel</pre>	101 102 103 104	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE
377	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel structure and shiftable shoe</pre>	101 102 103 104 105	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR
377 378	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel structure and shiftable shoe or band</pre>	101 102 103 104 105 106 107	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches
377	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel structure and shiftable shoe or bandHaving fluid actuator for</pre>	101 102 103 104 105 106 107 108	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuated
377 378 379	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel structure and shiftable shoe or bandHaving fluid actuator for shifting shoe or band</pre>	101 102 103 104 105 106 107 108 109	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawls
377 378	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel structure and shiftable shoe or bandHaving fluid actuator for shifting shoe or bandWith portable housing for drum</pre>	101 102 103 104 105 106 107 108 109	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversing
377 378 379	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for	101 102 103 104 105 106 107 108 109 110	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing
377 378 379	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to	101 102 103 104 105 106 107 108 109 110 111	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Rack and lever
377 378 379	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to supporting base or load	101 102 103 104 105 106 107 108 109 110 111 112	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Rack and lever SINGLE THROW LEVER AND BAR
377 378 379	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to	101 102 103 104 105 106 107 108 109 110 111 112 113	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Reversing .Rack and lever SINGLE THROW LEVER AND BAR .Sliding bar
377 378 379 380	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to supporting base or load	101 102 103 104 105 106 107 108 109 110 111 112	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Rack and lever SINGLE THROW LEVER AND BAR
377 378 379 380	<pre>in at least one directionRatchet wheel or formation and locking pawlFluid resistance brakeFrictional brake assembly having rotating, wheel structure and shiftable shoe or bandHaving fluid actuator for shifting shoe or bandWith portable housing for drum and hand manipulated means for removably fastening housing to supporting base or loadWith structure (e.g., sweep,</pre>	101 102 103 104 105 106 107 108 109 110 111 112 113	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Reversing .Rack and lever SINGLE THROW LEVER AND BAR .Sliding bar
377 378 379 380	 in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to supporting base or load With structure (e.g., sweep, tree, yoke) adapting drum to 	101 102 103 104 105 106 107 108 109 110 111 112 113 114	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Reversing .Rack and lever SINGLE THROW LEVER AND BAR .Sliding barRack bar and segment
377 378 379 380	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to supporting base or load With structure (e.g., sweep, tree, yoke) adapting drum to be powered by draft animal	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Reversing .Rack and lever SINGLE THROW LEVER AND BAR .Sliding barRack bar and segmentAdjustable
377 378 379 380	in at least one direction Ratchet wheel or formation and locking pawl Fluid resistance brake Frictional brake assembly having rotating, wheel structure and shiftable shoe or band Having fluid actuator for shifting shoe or band With portable housing for drum and hand manipulated means for removably fastening housing to supporting base or load With structure (e.g., sweep, tree, yoke) adapting drum to be powered by draft animal Including static receiver	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	.Special engaging featureRocking head or base .Telescoping screws .Geared WEDGE STEP-BY-STEP TRAVELING BAR .Clutch actuatedMultiple driving clutches .Pawl actuatedMultiple driving pawlsReversingReversing .Reversing .Rack and lever SINGLE THROW LEVER AND BAR .Sliding barRack bar and segmentAdjustableLateral shoe

1.00		400	
120	SINGLE THROW LEVER	400	Having axes perpendicular or
121	.Rail or tie lifter		skewed
122	.Lazy tongs	401	With portable block for
123	.Lever-supported thrust bar		elements and hand manipulated
124	.Mechanically actuated		means for removably fastening
126	Screw	400	block to support base or load
127	Cable	402	Having portion of block
128	Block and tackle		repositionable for insertion
129	.Adjustable		or removal of cable or for
130	Multiple fulcrums	402	exposure of elements
131	.Special engaging feature	403	With guard or guide for
131.5	Fulcrumed fork or shovel	404	maintaining cable on elements
132	Root puller type	404	Including antifriction means
387	LOAD ENGAGING MEMBER AND POWER	405	for elements
	TRANSMITTING CABLE FOR	405	With block for element and
	SHIFTING MEMBER RELATIVE TO		portion thereof repositionable
	STRUCTURE WHICH CONTACTS AND		for insertion or removal of
	GUIDES MEMBER		cable or for exposure of
133 R	SPECIAL ENGAGING ELEMENTS	406	element
134	.Adjustable	406	Portion revolves about axis of
133 A	.Sharing props (nonhydraulic)	407	rotation of element
388	MEANS SUPPORTED BY, AND	407	With means, or element
	MAINTAINING RELATIVE SPACING		structure, enabling object or
	BETWEEN, LONGITUDINAL RUNS OF		obstruction on cable to bypass
	AN ENDLESS LOAD MOVING CABLE	400	or travel over element
389	DEVICE OR MEMBER FOR CONTACTING	408	With block for element having
	AND GUIDING MOVING CABLE		stationary portion adapted to
390	.Including rotatable, cable		coact with element to grip
	contacting, pulley wheel	409	cable
	element	409	With portable block for element
391	With mechanism for retarding or		and hand manipulated means for removably fastening block to
	preventing cable movement or		support or load
	element rotation	410	Fastening means remotely
392	With fluid, shock absorbing or	410	operable or breakaway type
	tension restoring mechanism	411	With guard or guide for
	connected thereto	111	maintaining cable on element
393	Plural elements or element with	412	Including antifriction means
	plural cable contacting	412	for element
	regions	413	With means for affixing element
394	At least two of the elements	413	to support base and allowing
	having noncollinear axes of		relative movement therebetween
	rotation	414	Including elastic member
395	Juxtaposed to cable at single	415	_
	locus	413	Including pivotal, rotational, or swivel connection
396	Having juxtaposed elements	416	With antifriction means for
	repositionable relative to one	410	element
	another	417	
397	Including additional element	#1 /	.Having cable contacting portion
	spaced along cable path		revolving around another component of device
398	Having one element		component of device
	repositionable relative to		
	another element		
399	Repositionable element		
	supported by cable (e.g.,	CROSS-	REFERENCE ART COLLECTIONS
	traveling block)		

254 - 8 CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

900	CABLE PULLING DRUM HAVING WAVE
700	MOTION RESPONSIVE ACTUATOR FOR
	OPERATING DRIVE OR ROTATION
	RETARDING MEANS
901	ANTIFRICTION MEANS FOR CABLE
	PULLING DRUM
902	EITHER DRUM, PULLEY WHEEL
	ELEMENT, OR CABLE CONSTRUCTED
	FROM SPECIFIC MATERIAL
903	YIELDABLE, CONSTANT ENGAGEMENT,
	FRICTION COUPLING (E.G., SLIP
	CLUTCH) IN DRIVE FOR CABLE
	PULLING DRUM

FOREIGN ART COLLECTIONS

FOR CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

DIG	1	JACK BASES
DIG	2	ELECTRIC SCREW JACKS
DIG	3	JACK HANDLES
DIG	4	OBJECT ENGAGING HEADS FOR JACKS
DIG	5	MEANS FOR DEPRESSING FOOT BRAKE
		WHEN ADJUSTING SAME
DIG	6	FLEXIBLE RACK AND PINION
DIG	7	PRINTERS FORM TRUCKS
DIG	8	SCREW JACKS, PLURAL SECTION NUT
DIG	9	VEHICLE-OPERATED LIFT PLATFORM
DIG	10	TIRE OR RIM EXPANDING OR
		CONTRACTING DEVICES
DIG	11	CABLE DRUM FEED FOR PRESSER
DIG	12	PAWLS
DIG	13	VEHICLE RETARDING DRUMS
DIG	14	ROPE ATTACHMENT
DIG	15	MOTOR CLAMPS
DIG	16	AUTOMOBILE TRANSMISSION JACK